

IFW

Attorney Docket: 3111-420



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : LIU  
Application No. : 10/779,648  
Filed : February 18, 2004  
Title : APPARATUS AND METHOD FOR CARRIER  
FREQUENCY OFFSET AND PHASE COMPENSATION  
IN COMMUNICATION SYSTEM  
Group Art Unit : 2661  
Examiner : Unknown  
Attorney Docket : 3111-420

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

**TRANSMITTAL COVER SHEET**

Transmitted herewith for filing are the following:

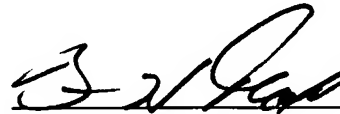
1. CLAIM TO PRIORITY UNDER 35 U.S.C. § 119, along with certified copy of Taiwan Application No. 092103827, filed February 19, 2003.
2. INFORMATION DISCLOSURE STATEMENT, along with Form PTO-1449 (in duplicate) and copies of documents listed thereon.

The Commissioner is hereby authorized to charge any fees which may be required for the filing of this document to **Deposit Account No. 501874**.

Respectfully submitted,

Date: June 30, 2004

By:

  
Bruce H. Troxell  
Reg. No. 26,592

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**INFORMATION DISCLOSURE STATEMENT**

Sir:

In compliance with the duty of disclosure under 37 CFR 1.56, and 37 CFR 1.97-1.98, the documents listed on the attached form PTO-1449 are hereby made of record in this patent application.

As this Information Disclosure Statement is being filed prior to the mailing of the first Official Action in this application, no fee is believed due in order to have the enclosed reference considered by the Examiner and made of record in the application.

Early action on the merits of the application is earnestly solicited.

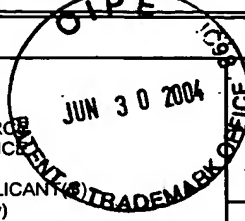
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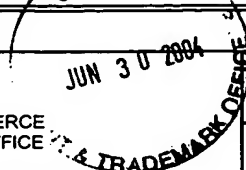
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Sheet 1 of 1							
FORM PTO 1449 (modified)  U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE  LIST OF REFERENCES CITED BY APPLICANT (Use several sheets if necessary)  Date Submitted to PTO: <b>June 30, 2004</b>	<div style="text-align: center;">  </div> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">ATTY DOCKET NO. <b>3111-420</b></td> <td style="width: 50%;">APPLICATION NO. <b>10/779,648</b></td> </tr> <tr> <td colspan="2">APPLICANT <b>LIU</b></td> </tr> <tr> <td>FILING DATE <b>February 18, 2004</b></td> <td>GROUP <b>2661</b></td> </tr> </table>	ATTY DOCKET NO. <b>3111-420</b>	APPLICATION NO. <b>10/779,648</b>	APPLICANT <b>LIU</b>		FILING DATE <b>February 18, 2004</b>	GROUP <b>2661</b>
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U.S. PATENT DOCUMENTS							
*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
		5285474	Feb. 8, 1994	Chow et al.			
OTHER DOCUMENT(S) (Including Author, Title, Date, Pertinent Pages, Etc.)							
		<b>Jack S. Chow, Jerry C. Tu, and J.M. Cioffi, "A Discrete Multitone Transceiver System for HDSL Applications", IEEE J. on Sel Areas in Comm., Vol. 9, No. 6, pp. 895-908, August 1991</b>					
		<b>J.S. Chow, J.M. Cioffi, and J.A.C. Bingham, "Equalizer training algorithms for multicarrier modulation system", ICC, pp. 761-765, May 1993</b>					
		<b>J.W. Melsa, Richard C. Younce and Charles E. Rohrs, "Impulse Response Shortening for Discrete Multitone Transceivers", IEEE Trans. on Comm., Vol. 44, No. 12, pp. 1662-1672, December 1996</b>					
		<b>N. Al-Dhahir and J.M. Cioffi, "Efficiently computed reduced-parameter input-aided MMSE equalizers for ML detection: A unified approach", IEEE Trans. on Info. Theory, Vol. 42, pp. 903-915, May 1996</b>					
		<b>N. Al-Dhahir and J.M. Cioffi, "Optimum finite-length equalization for multicarrier transceivers", IEEE Trans. on Comm., Vol. 44, pp. 56-63, Jan. 1996</b>					
		<b>Werner Henkel, and Thomas Kessler, "Maximizing the Channel Capacity of Multicarrier Transmission by Suitable Adaptation of the Time-Domain Equalizer", IEEE Trans. on Comm., Vol. 48, No. 12, December 2000</b>					
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		<b>Guner Arslan et al., "Equalization for Discrete Multitone Transceivers to Maximize Bit Rate", IEEE Trans. on Signal processing.</b>					
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